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87. OILS, FATS & GLUE,  
~~Candles & Apparatus~~

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A.D. 1854 . . . . N° 2557

## Manufacture of Candles and Night Lights.

**LETTERS PATENT** to George Fergusson Wilson, Managing Director, and John Chase Craddock, Superintendent, of Price's Patent Candle Company, Belmont, Vauxhall, for the Invention of "**IMPROVEMENTS IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS.**"

Sealed the 2nd February 1855, and dated the 5th December 1854.

**PROVISIONAL SPECIFICATION** left by the said George Fergusson Wilson and John Chase Craddock at the Office of the Commissioners of Patents, with their Petition, on the 5th December 1854.

We, **GEORGE FERGUSSON WILSON**, Managing Director, and **JOHN CHASE CRADDOCK**, Superintendent, of Price's Patent Candle Company, Belmont, Vauxhall, do hereby declare the nature of the Invention for "**IMPROVEMENTS IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS**" to be as follows:—

This Invention has for its object improvements in the manufacture of candles and night lights, when using the stearines of cocoa nut oil, of the Calhoun palm, and of the kernel of the palm oil nut. And our improvements consist of combining one or more of such stearines with a small quantity of hard fat acid, the stearine not being less than three-fifths of the compound by which a candle stuff will be produced, requiring in each candle two small wicks, or one large wick, suitable for turning out of the flames when burning, when made up into candles. And the use of the stearine alone of the Calhoun palm, and of the kernel of the palm oil nut, with such like wicks, make good

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candles; and such application of these stearines constitutes part of our improvements. We find that such stearines are unsuited for making night lights of small diameter, by reason of their melting points; but that they may be used with advantage when making night lights of comparatively large diameter. And our Invention consists of applying such stearines when making night 5 lights of greater diameter than one inch and three-sixteenths of an inch diameter.

**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said George Fergusson Wilson and John Chase Craddock in the Great Seal Patent Office on the 30th May 1855.

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**TO ALL TO WHOM THESE PRESENTS SHALL COME**, we, GEORGE FERGUSSON WILSON, Managing Director, and JOHN CHASE CRADDOCK, Superintendent, of Price's Patent Candle Company, Belmont, Vauxhall, send greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters 15 Patent, bearing date the Fifth day of December, in the year of our Lord One thousand eight hundred and fifty-four, in the eighteenth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto us, the said George Fergusson Wilson and John Chase Craddock, Her special licence that we, the said George Fergusson Wilson and John Chase Craddock, 20 our executors, administrators, and assigns, or such others as we, the said George Fergusson Wilson and John Chase Craddock, our executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of 25 Great Britain and Ireland, the Channel Islands, and Isle of Man, **an Invention** for "**IMPROVEMENTS IN THE MANUFACTURE OF CANDLES AND NIGHT LIGHTS,**" upon the condition (amongst others) that we, the said George Fergusson Wilson and John Chase Craddock, by an instrument in writing under our hands and seals, or under the hand and seal of one of us, should particularly 30 describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

• **NOW KNOW YE**, that we, the said George Fergusson Wilson and John 35 Chase Craddock, do hereby declare the nature of the said Invention, and in

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what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:—

This Invention has for its object improvements in the manufacture of candles and night lights when using the stearines of cocoa nut oil, of the Calhoun palm, and of the kernel of the palm oil nut. And our improvements consist of combining one or more of such stearines with a small quantity of hard fat acid, the stearine not being less than three-fifths of the compound, by which a candle stuff will be produced, requiring in each candle two small wicks, or one large wick, suitable for turning out of the flames (when burning), when made up into candles. And the use of the stearine alone, of the Calhoun palm, and of the kernel of the palm oil nut, with such like wicks, make good candles; and such application of these stearines constitutes part of our improvements. We find that such stearines are unsuited for making night lights of small diameter, by reason of their melting points; but that they may be used with advantage when making night lights of comparatively large diameter. And our Invention consists of applying such stearines when making night lights of greater diameter than one inch and three-sixteenths of an inch diameter.

Having thus stated the nature of our said Invention, we will proceed to describe the manner of performing the same.

In carrying out our Invention, we take, by preference, at the rate of about four parts by weight of the stearine of cocoa nut oil, or of the Calhoun palm, or of the oil of the kernel of the palm oil nut, or of mixtures of these, and combine or mix therewith one part by weight of the hard fat acid, preferring that separated by hot pressure from distilled acidified palm oil; and having melted them together, we intimately mix them by blowing free steam through them, when the combined materials will be ready for use.

We do not confine ourselves to the precise quantities, or to the precise description of hard fat acid, but adhere as near as may be to those given above. The wicks we prefer to use is a loose plat of English Turkey-bleached cotton, of three strands of twenty-five threads each, or about the same quantity of yarns made up into two wicks may be used; and such size or sizes of wicks we employ in candles which weigh about six to the lb. .

When the candles are required for chamber candles, or otherwise where the quantity of light is not so important as the property of being able to be carried about without dropping grease, we do not add the fat acid, but make candles with the above wicks of the stearine of the Calhoun palm, or the stearine of the palm oil nut, or of those stearines combined, and they may be combined in any proportions. We prefer in all cases, when preparing these two stearines, or any mixture containing them, or either of them, for the making

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of night lights, to refine them by boiling them in water, acidulated with sulphuric acid, as is well understood; after which we cast them in moulds when making what are known as Albert night lights, or when making other forms of night lights in paper or other suitable coverings or cases, of a diameter in each case of one inch and five-eighths of an inch, as these stearines do not 5 burn well when made up into night lights of small diameter.

In witness whereof, we, the said George Fergusson Wilson and John Chase Craddock, have hereunto set our hands and seals, this Twenty-fifth day of May, in the year of our Lord One thousand eight hundred and fifty-five.

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GEO. F. WILSON. (L.S.)  
JOHN CHASE CRADDOCK. (L.S.)

Witness,

S. CARPMAEL.

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